


Japan Test Report

Equipment : ONU INTEGRATED HIGH-SPEED ROUTER
Model No. : NSD-G3000T
Brand Name : SONY NETWORK COMMUNICATIONS INC.
Applicant : Sercomm Corporation
Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei 115,
Taiwan, R.O.C.
Standard : Article 2 Paragraph 1 Item 19
Received Date : Jul. 21, 2020
Tested Date : Aug. 05 ~ Aug. 12, 2020

Measurement was conducted by the following test method:
the test method of Ordinance Concerning Technical Regulations Conformity Certification
etc. of Specified Radio Equipment in Annex 1, the Ministry of Internal Affairs and
Communications notification in Annex "43" of Article 88, Paragraph 1 and ARIB STD-T66.

We, International Certification Corp., would like to declare that the tested sample has been
evaluated and in compliance with the requirement of the above standards. The test results
contained in this report refer exclusively to the product. It may be duplicated completely for
legal use with the approval of the applicant. It shall not be reproduced except in full without
the written approval of our laboratory.

Reviewed by:


James Fan / Assistant Manager

Approved by:


Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
JR072101AE	Rev. 01	Initial issue	Sep. 01, 2020

Summary of Test Results

Ref. Std. Clause	Description	Result
3.2(2)(3)	Antenna Power	Pass
3.2(4)	Frequency Tolerance	Pass
3.2(6)	Transmitter Spurious Emission	Pass
3.2(7)	Occupied Bandwidth	Pass
3.3(1)	Receiver Emission	Pass
3.4.1	Interference prevention function	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Power Type	12Vdc from adapter
Type(s) of Modulation / Technology	GFSK = 1Mbps
Frequency Range (MHz)	2402 ~ 2480 MHz
Total Channel Number	40
HW Version	1.0
SW Version	V1.0.99_T

1.1.2 Accessories

No.	Equipment	Description
1	AC adapter	Brand: LEADER Model: NU36-F120300-I3 Power Rating: I/P: 100-240Vac, 50/60Hz, 1A O/P: 12Vdc, 3A Power line: DC 0.94m non-shielded without core AC 1.0m non-shielded without core
2	RJ45	1.43m non-shielded without core

1.1.3 Antenna Details

Ant. No.	Type	Connector	Antenna Gain (dBi)
1	Dipole	IPEX	3

Note: Please refer to antenna report for more details about antenna pattern and other information.

1.1.4 Antenna Power

Operating Mode	Rated Power (mW)	Measured Conducted Power (mW)	Radiated Power (mW)
BT-LE(1Mbps)	7.50	7.17794	14.322

1.1.5 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

1.1.6 Test Tool and Power Index

Test Tool
Telnet

Power Index			
Modulation Mode	Test Frequency (MHz)		
	2402	2440	2480
BT-LE(1Mbps)	Default	Default	Default

1.1.7 Test Voltage

Test Voltage	<input checked="" type="checkbox"/> Vnom (12Vdc)	<input checked="" type="checkbox"/> Vmax (12.6 Vdc)	<input checked="" type="checkbox"/> Vmin (11.4 Vdc)
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1.1.8 Protection Method for High Frequency and Modulation Section

Protected Method	Description
Special Screw	The high-frequency and modulation components are well covered within EUT' housing which uses special screws to protect itself from being opened unless with the dedicated tools.

1.2 Test Equipment and Calibration Data

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101486	Feb. 10, 2020	Feb. 09, 2021
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Oct. 29, 2019	Oct. 28, 2020
Measurement Software	-	SENSE-T66_FS	V5.10.7	NA	NA
Note 1: Calibration Interval of instruments listed above is one year.					
Note 2: Above instruments are calibrated by Electronics Testing Center					

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Article 2 Paragraph 1 Item 19

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.139 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
TX Conducted emission	± 2.680 dB
RX Conducted emission	± 3.034 dB

2 Test Configuration

2.1 Testing Location and Conditions

Test Site	Site Category	Ambient Condition	Tested By
TH01-WS	OVEN Room	23°C / 63%	Alex Huang

2.2 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	TH01-WS
Address of Test Site (Kwei Shan)	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

2.3 Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	Latitude E5470	DoC

2.4 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)
Antenna Power Frequency Tolerance Occupied Bandwidth Transmitter Spurious Emission Interference prevention function Receiver Spurious Emissions	BT-LE(1Mbps)	2402 / 2440 / 2480

3 Transmitter Test Results

3.1 Antenna Power

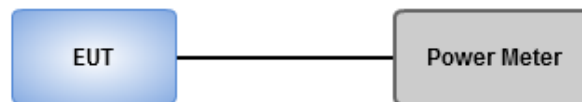
3.1.1 Limit of Antenna Power

Mode	Limit	Tolerance
1) FH, FH+DS, FH+OFDM	3 mW / MHz	+20 % , -80 %
2) OFDM(Narrow- bandwidht), DS	10 mW / MHz	
3) Other than 1) & 2)	10mW	
4) OFDM (Wide-band)	5 mW / MHz	

3.1.2 Test Procedures

Measure the total power by Power Meter

3.1.3 Test Setup



3.1.4 Test Result of Maximum Transmit Power

Refer to Appendix A1, A2

3.2 Frequency Tolerance

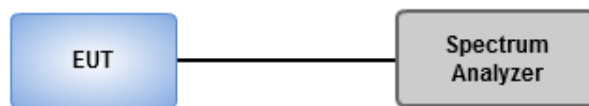
3.2.1 Limit of Frequency Tolerance

Frequency tolerance shall be +/- 50ppm.

3.2.2 Test Procedures

1. Set Span = 3 MHz, RBW = 100 kHz, VBW = 300 kHz, Sweep time = Auto, detector = Peak.
2. The peak value of the power envelope shall be measured and noted.
3. The span shall be reduced and the marker moved in a positive frequency increment until the upper, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f1.
The marker shall then be moved in a negative frequency increment until the lower, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f2.
The Measurement Frequency is calculated as $(f1 + f2) / 2$.
4. $FT(ppm) = \{ (MF - CF) / CF \} \times 1000000$
(FT: Frequency Tolerance, MF: Measurement Frequency, CF: Centre Frequency.)

3.2.3 Test Setup



3.2.4 Test Result of Frequency Tolerance

Refer to Appendix B

3.3 Occupied Bandwidth

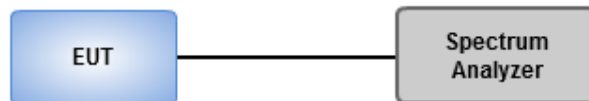
3.3.1 Limit of Occupied Bandwidth

Mode	Limit (MHz)
FH	83.5
FH+DS	83.5
FH+OFDM	83.5
OFDM(Narrow- bandwidht), DS	26
Others	26
OFDM (Wide-band)	38

3.3.2 Test Procedures

1. Set Span = 40MHz, RBW = VBW = 300kHz, detector = Peak, Sweep time = Auto.
2. Enable OBW function of spectrum analyzer to measure OBW and capture test plot.

3.3.3 Test Setup



3.3.4 Test Result of Occupied Bandwidth

Refer to Appendix C

3.4 Transmitter Spurious Emissions

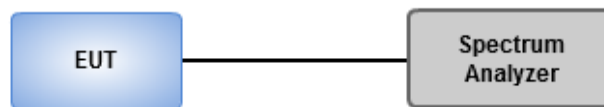
3.4.1 Limit of Transmitter Spurious Emissions

Item	Limits
Tx Spurious Emission	$\leq 2.5 \mu\text{W}$ ($2387\text{MHz} > f$; $2496.5\text{MHz} < f$).
	$\leq 25 \mu\text{W}$. ($2387\text{MHz} \leq f < 2400\text{MHz}$) and ($2483.5\text{MHz} < f \leq 2496.5\text{MHz}$).

3.4.2 Test Procedures

1. Set EUT to transmit at rated power and channel to perform test.
2. Set RBW = VBW = 1MHz, Detector type = Peak, Sweep time = Auto.
3. Following above setting of spectrum analyzer to measure spurious emission of 30~12500 MHz.

3.4.3 Test Setup



3.4.4 Test Result of Transmitter Spurious Emissions

Refer to Appendix D

3.5 Interference Prevention Function

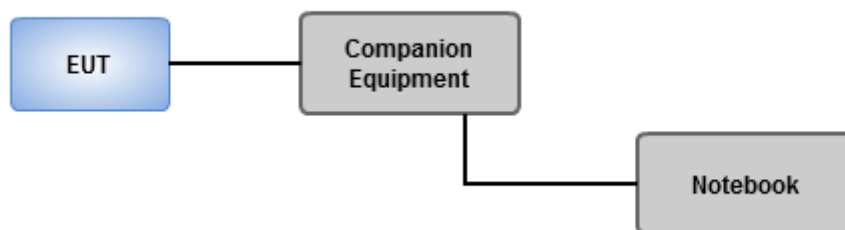
3.5.1 Limit of Interference Prevention Function

Limits
The identification code shall be 48 bits long

3.5.2 Test Procedures

1. Set EUT under operating mode and link up with companion equipment
2. Check communication status between EUT and companion equipment is normal
3. Confirm the MAC address of EUT

3.5.3 Test Setup



3.5.4 Test Result of Interference Prevention Function

Refer to Appendix E

4 Receiver Test Results

4.1 Receiver Spurious Emissions

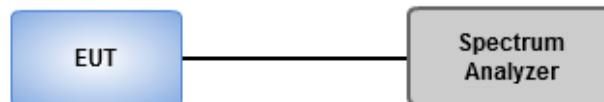
4.1.1 Limit of Receiver Spurious Emissions

Item	Limits
Rx Spurious Emission	$\leq 4\text{nW}$ ($f < 1\text{GHz}$).
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$).

4.1.2 Test Procedures

1. Set EUT under receiving condition to perform test
2. Set RBW = VBW = 100kHz, detector = Peak, Sweep time = Auto for emission measurement below 1GHz.
3. Set RBW = VBW=1MHz, detector = Peak, Sweep time = Auto for emission measurement above 1GHz.

4.1.3 Test Setup



4.1.4 Test Result of Receiver Spurious Emissions

Refer to Appendix F

5 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan,
R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

**Summary**

Mode	Power (dBm)	Power (mW)	EIRP (dBm)	EIRP (mW)
2.4-2.4835GHz	-	-	-	-
BT-LE(1Mbps)	8.56	7.17794	11.56	14.322

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power (mW)	Power Lim. (mW)	EIRP (dBm)	EIRP (mW)	EIRP Lim. (mW)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	3.00	7.98	6.28058	10	10.98	12.531	16.368
2402MHz_TnomVmin	Pass	3.00	7.97	6.26614	10	10.97	12.503	16.368
2402MHz_TnomVmax	Pass	3.00	7.98	6.28058	10	10.98	12.531	16.368
2440MHz_TnomVnom	Pass	3.00	8.55	7.16143	10	11.55	14.289	16.368
2440MHz_TnomVmin	Pass	3.00	8.54	7.14496	10	11.54	14.256	16.368
2440MHz_TnomVmax	Pass	3.00	8.56	7.17794	10	11.56	14.322	16.368
2480MHz_TnomVnom	Pass	3.00	8.50	7.07946	10	11.50	14.125	16.368
2480MHz_TnomVmin	Pass	3.00	8.49	7.06318	10	11.49	14.093	16.368
2480MHz_TnomVmax	Pass	3.00	8.51	7.09578	10	11.51	14.158	16.368

;

Summary

Mode	Result	Power (dBm)	Power (mW)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
2.4-2.4835GHz	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	8.56	7.17794	7.50	-4.29	20	-80

Result

Mode	Result	Power (dBm)	Power (mW)	Declare (mW)	Tolerance (%)	Limit+ (%)	Limit- (%)
BT-LE(1Mbps)	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	7.98	6.28058	7.50	-16.26	20	-80
2402MHz_TnomVmin	Pass	7.97	6.26614	7.50	-16.45	20	-80
2402MHz_TnomVmax	Pass	7.98	6.28058	7.50	-16.26	20	-80
2440MHz_TnomVnom	Pass	8.55	7.16143	7.50	-4.51	20	-80
2440MHz_TnomVmin	Pass	8.54	7.14496	7.50	-4.73	20	-80
2440MHz_TnomVmax	Pass	8.56	7.17794	7.50	-4.29	20	-80
2480MHz_TnomVnom	Pass	8.50	7.07946	7.50	-5.61	20	-80
2480MHz_TnomVmin	Pass	8.49	7.06318	7.50	-5.82	20	-80
2480MHz_TnomVmax	Pass	8.51	7.09578	7.50	-5.39	20	-80

**Summary**

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
2.4-2.4835GHz	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.402G	2.4019715G	-11.8651	±50	1	-

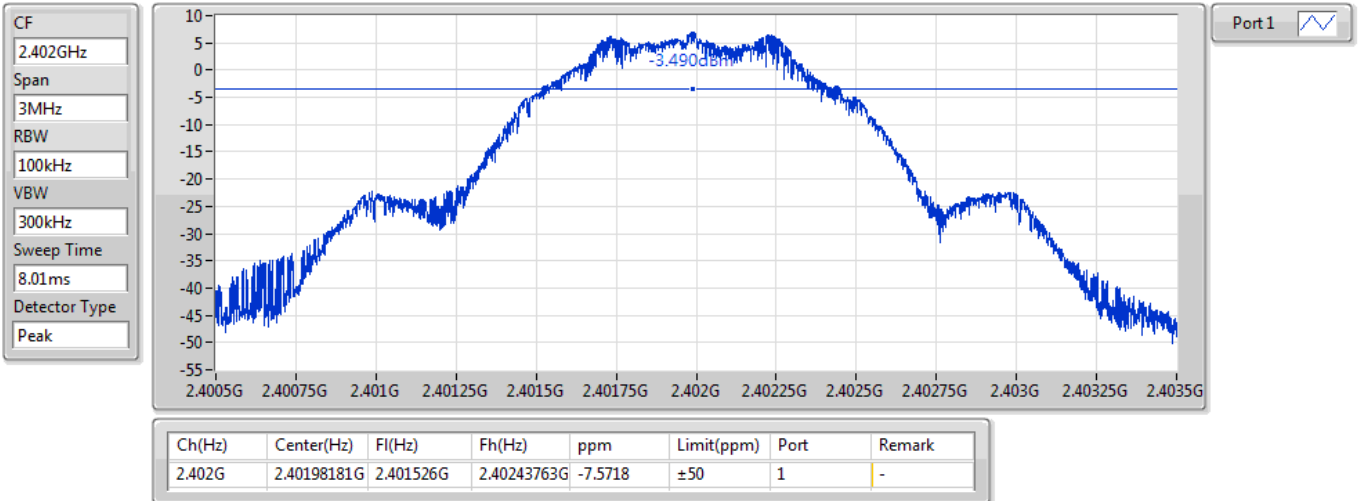
Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
BT-LE(1Mbps)	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402G	2.40198181G	-7.5718	±50	1	-
2402MHz_TnomVmin	Pass	2.402G	2.4019715G	-11.8651	±50	1	-
2402MHz_TnomVmax	Pass	2.402G	2.40197844G	-8.9769	±50	1	-
2440MHz_TnomVnom	Pass	2.44G	2.43997788G	-9.0676	±50	1	-
2440MHz_TnomVmin	Pass	2.44G	2.43997469G	-10.374	±50	1	-
2440MHz_TnomVmax	Pass	2.44G	2.43998406G	-6.5318	±50	1	-
2480MHz_TnomVnom	Pass	2.48G	2.47998406G	-6.4264	±50	1	-
2480MHz_TnomVmin	Pass	2.48G	2.47998313G	-6.8044	±50	1	-
2480MHz_TnomVmax	Pass	2.48G	2.47998425G	-6.3508	±50	1	-

BT-LE(1Mbps)

Freq. Stability

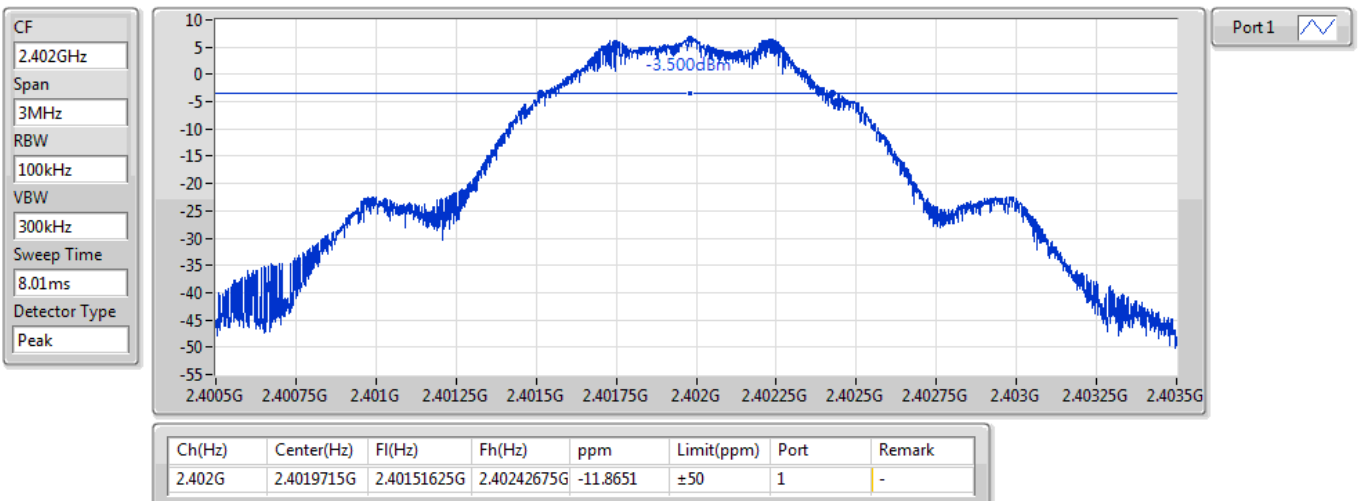
2402MHz_TnomVnom



BT-LE(1Mbps)

Freq. Stability

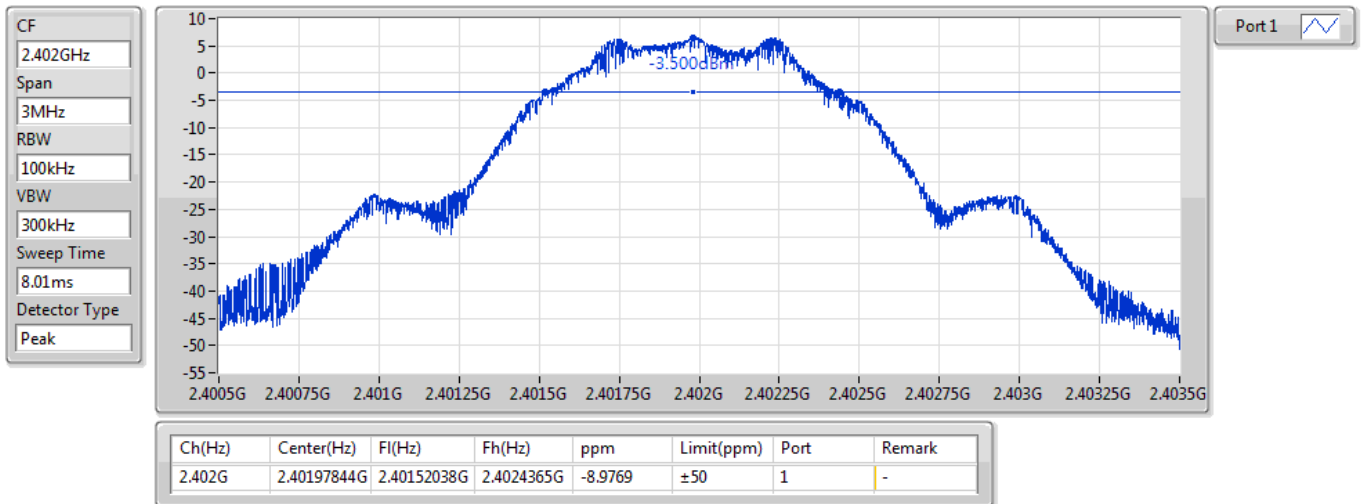
2402MHz_TnomVmin



BT-LE(1Mbps)

Freq. Stability

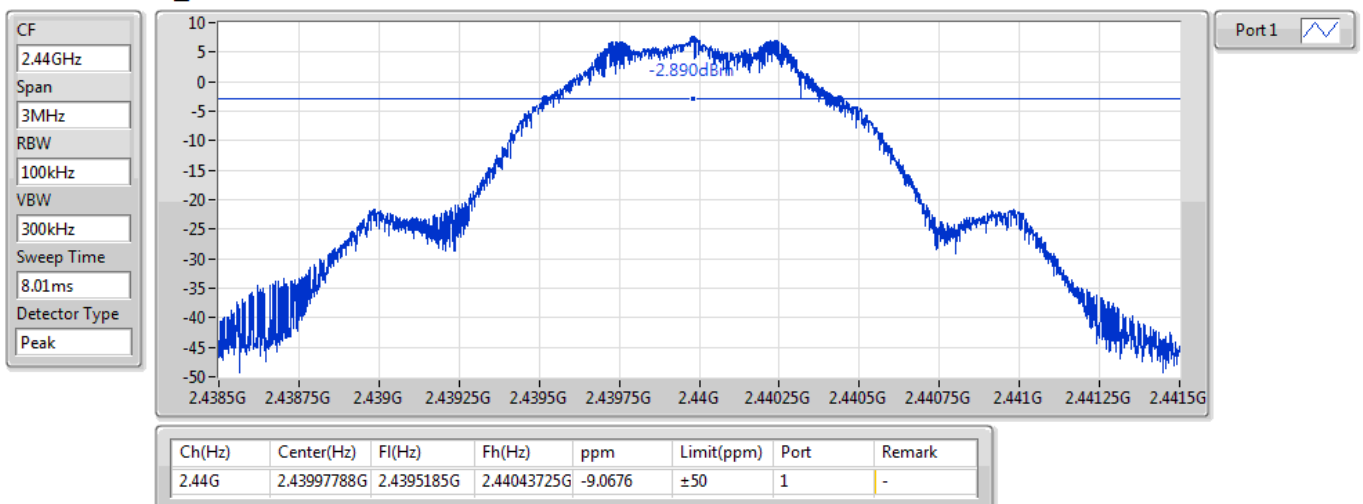
2402MHz_TnomVmax



BT-LE(1Mbps)

Freq. Stability

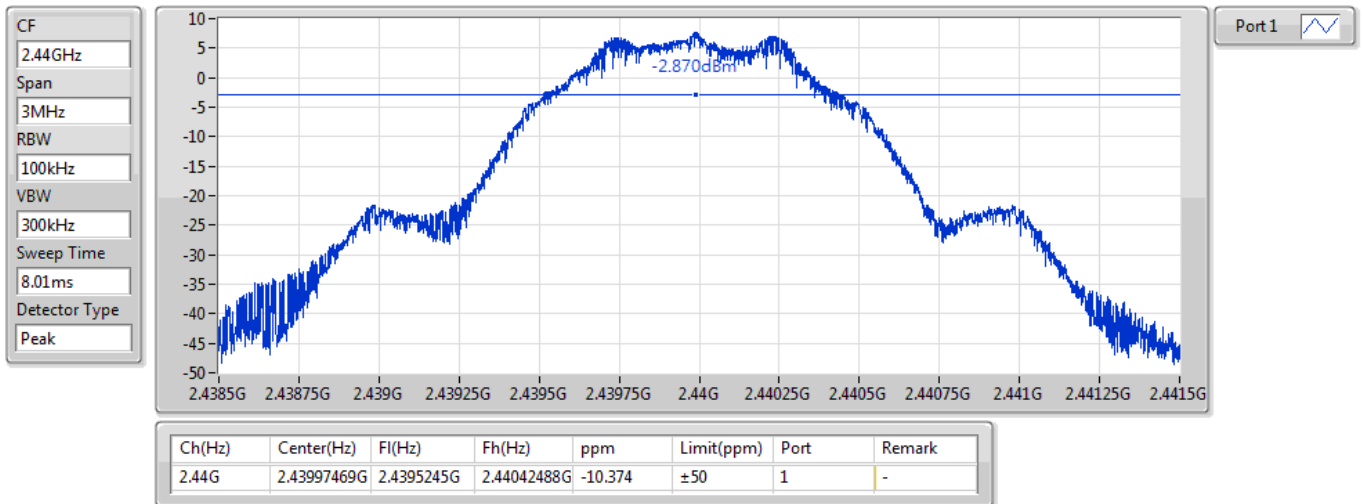
2440MHz_TnomVnom



BT-LE(1Mbps)

Freq. Stability

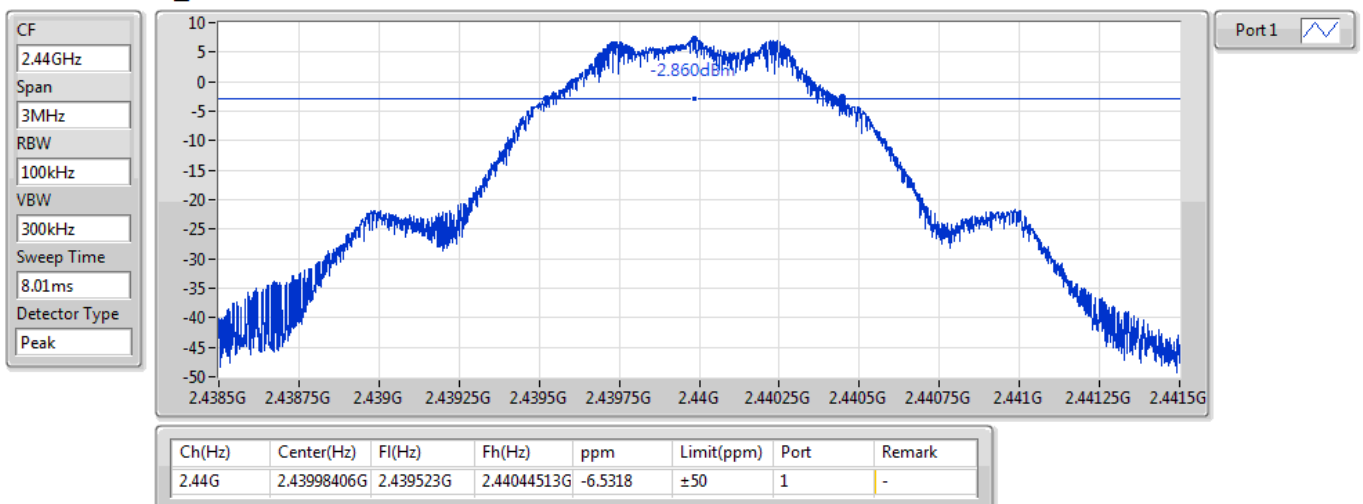
2440MHz_TnomVmin



BT-LE(1Mbps)

Freq. Stability

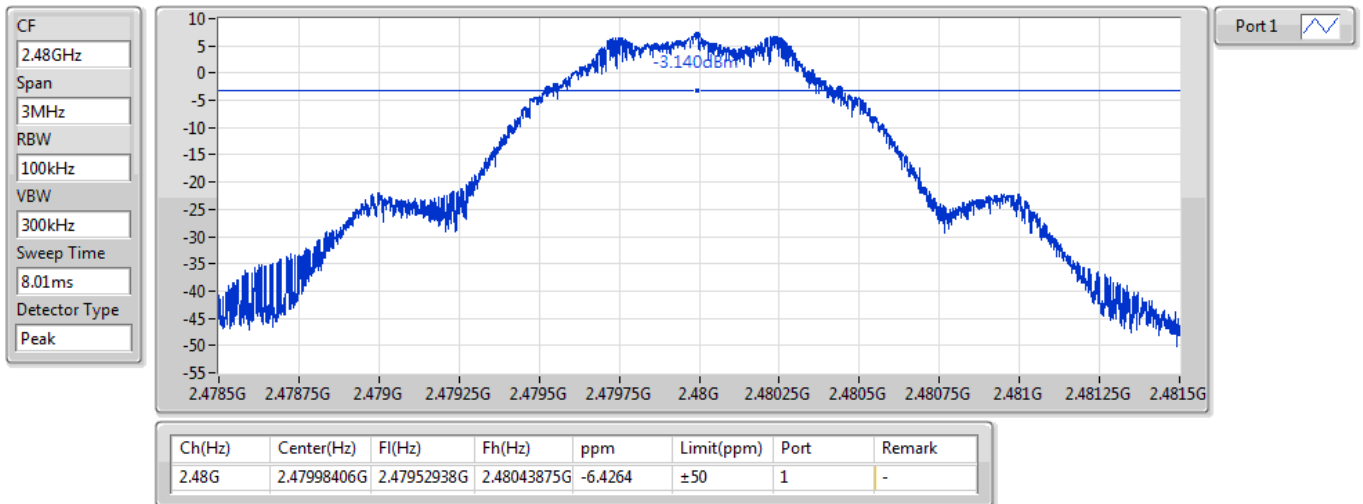
2440MHz_TnomVmax



BT-LE(1Mbps)

Freq. Stability

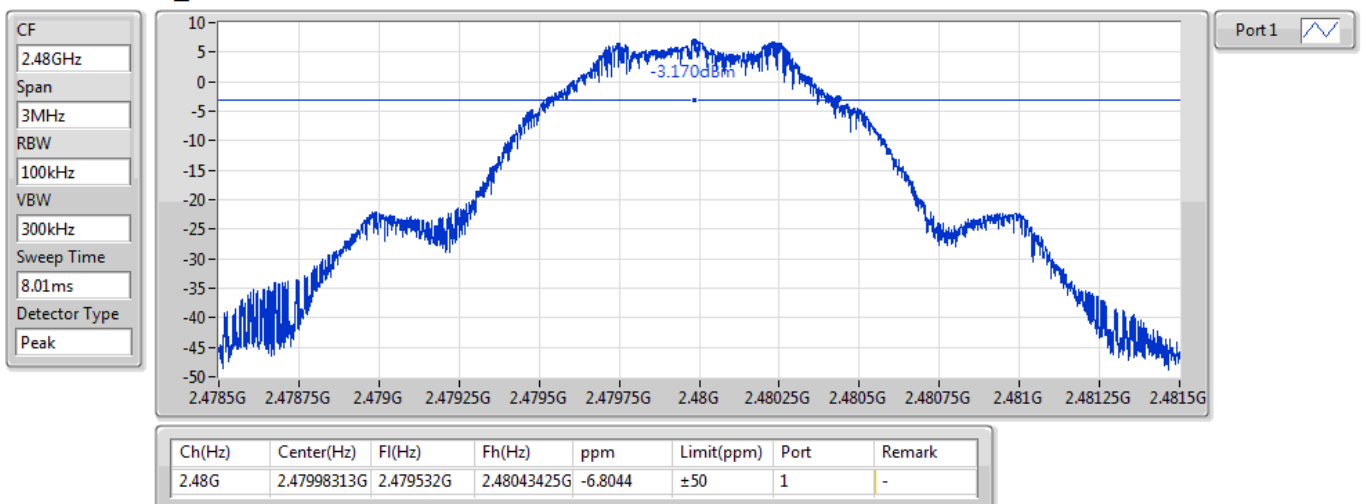
2480MHz_TnomVnom



BT-LE(1Mbps)

Freq. Stability

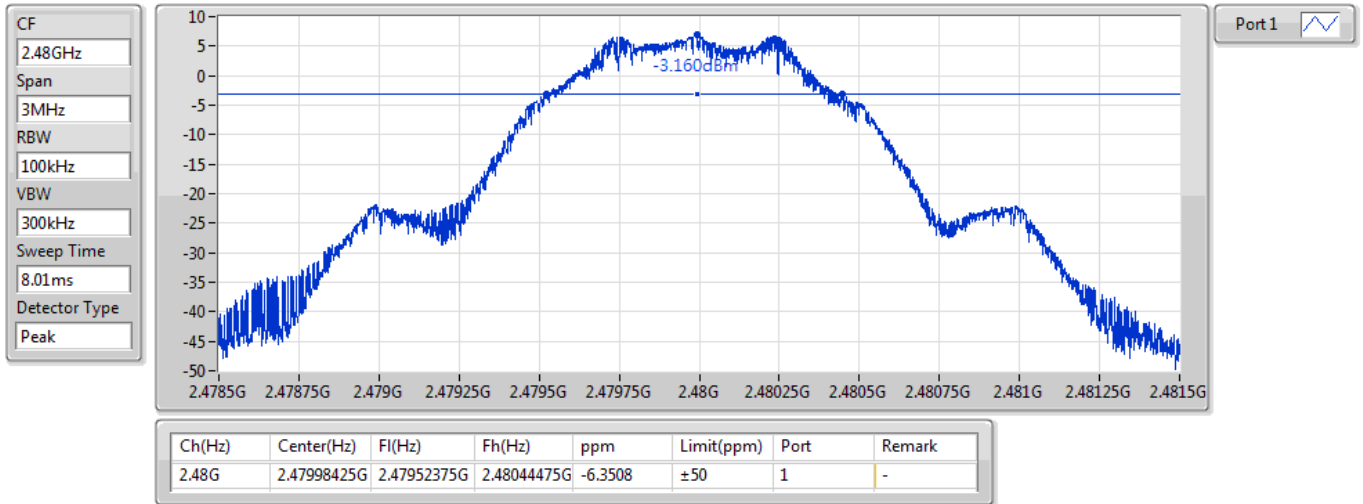
2480MHz_TnomVmin



BT-LE(1Mbps)

Freq. Stability

2480MHz_TnomVmax



Summary

Mode	Max-OBW (Hz)	ITU-Code	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-
BT-LE(1Mbps)	1.307M	1M31F1D	1.298M

Max-OBW = Maximum 99% occupied bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

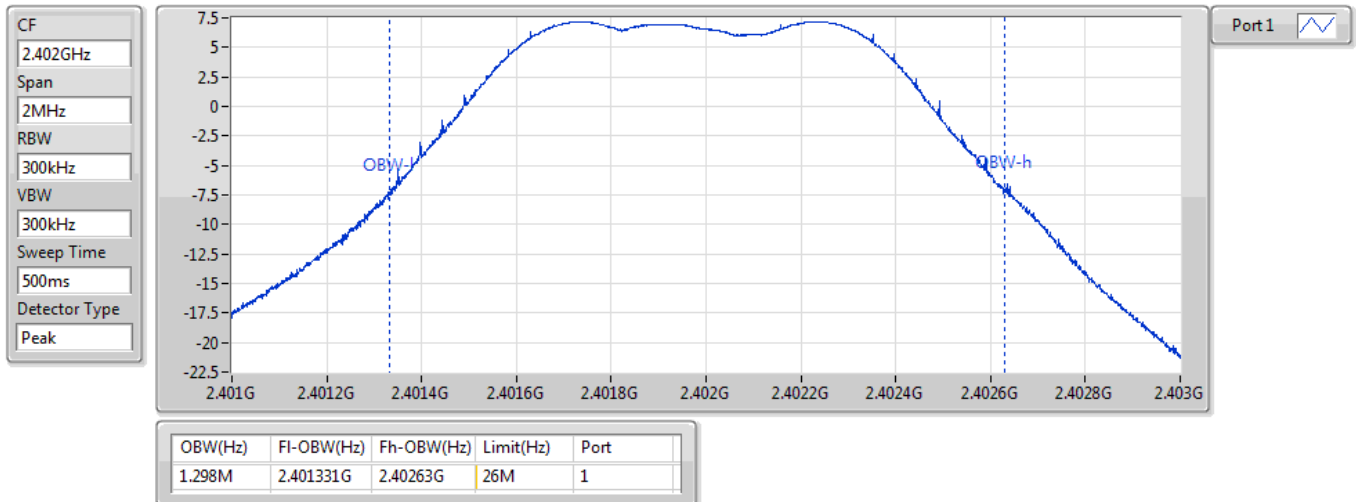
Mode	Result	Limit (Hz)	P1-OBW (Hz)
BT-LE(1Mbps)	-	-	-
2402MHz_TnomVnom	Pass	26M	1.298M
2402MHz_TnomVmin	Pass	26M	1.298M
2402MHz_TnomVmax	Pass	26M	1.299M
2440MHz_TnomVnom	Pass	26M	1.307M
2440MHz_TnomVmin	Pass	26M	1.306M
2440MHz_TnomVmax	Pass	26M	1.306M
2480MHz_TnomVnom	Pass	26M	1.305M
2480MHz_TnomVmin	Pass	26M	1.305M
2480MHz_TnomVmax	Pass	26M	1.305M

P1-OBW = Port 1 99% occupied bandwidth;

BT-LE(1Mbps)

OBW

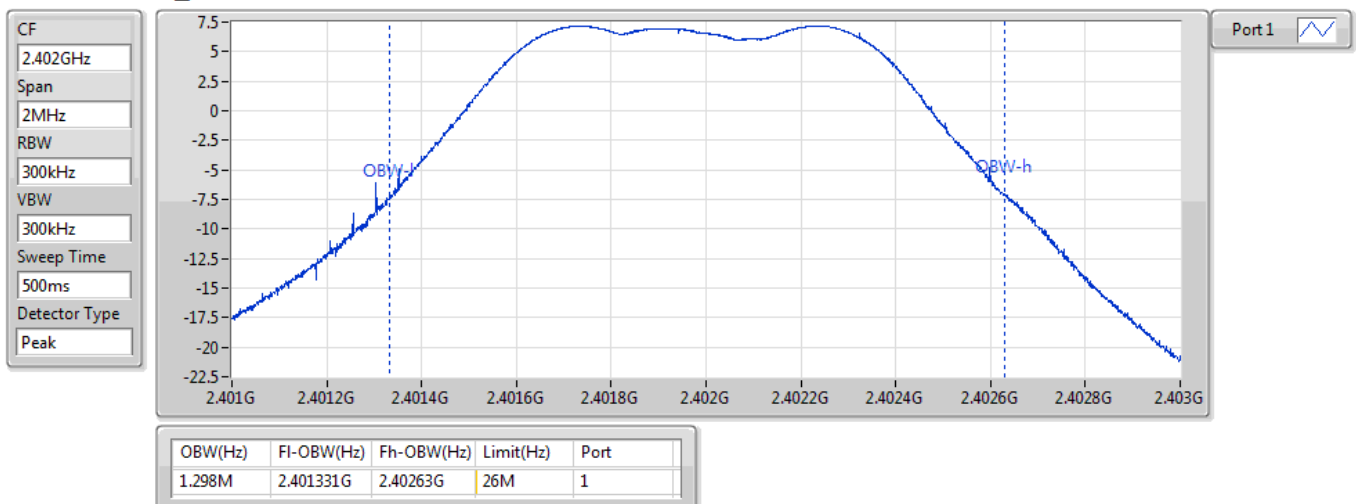
2402MHz_TnomVnom



BT-LE(1Mbps)

OBW

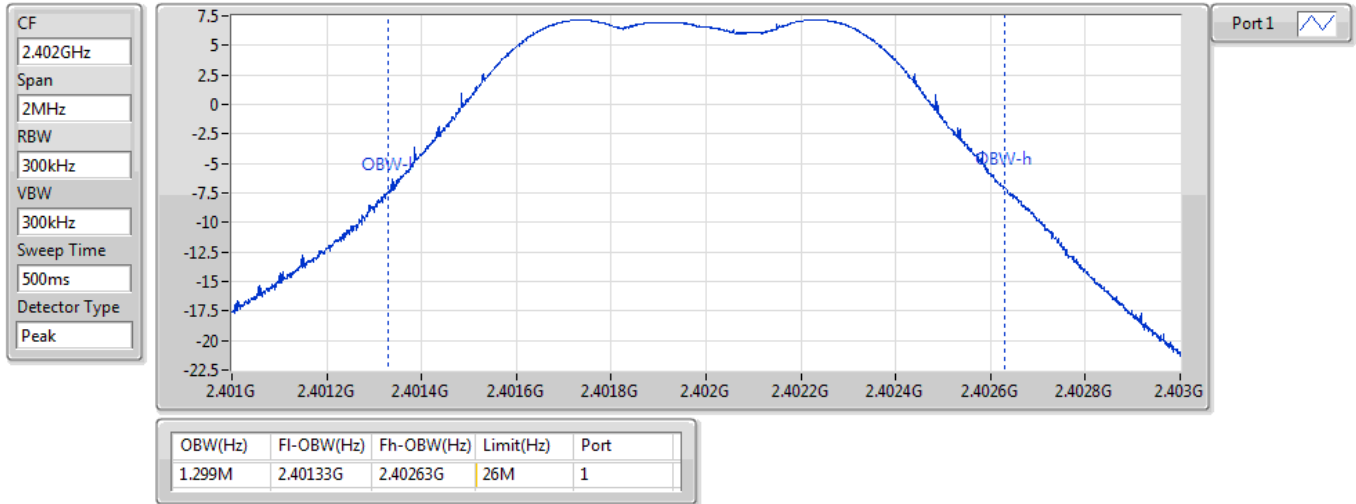
2402MHz_TnomVmin



BT-LE(1Mbps)

OBW

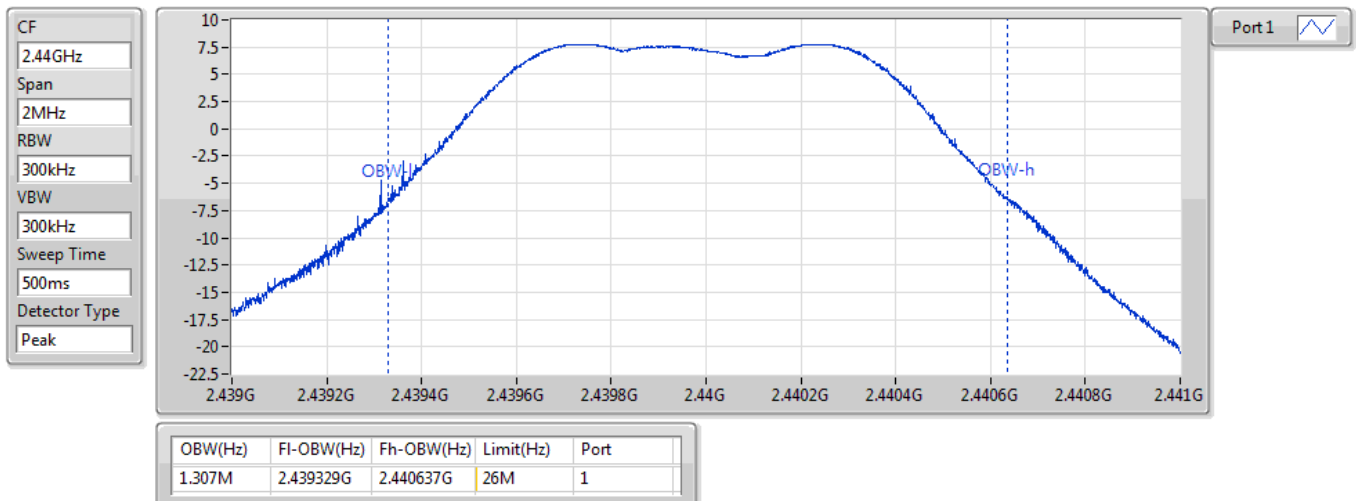
2402MHz_TnomVmax



BT-LE(1Mbps)

OBW

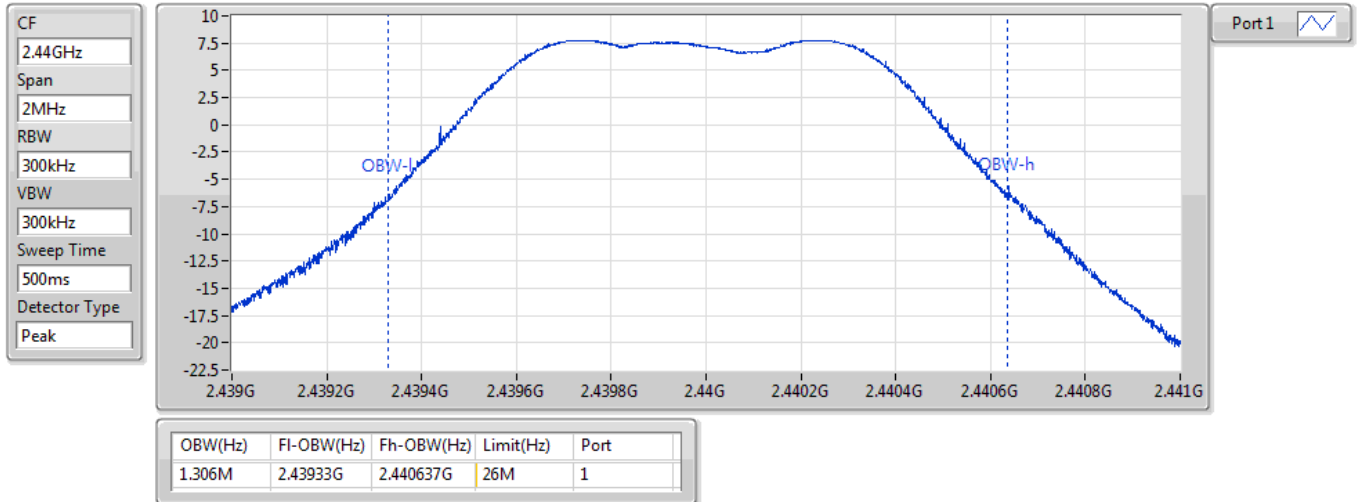
2440MHz_TnomVnom



BT-LE(1Mbps)

OBW

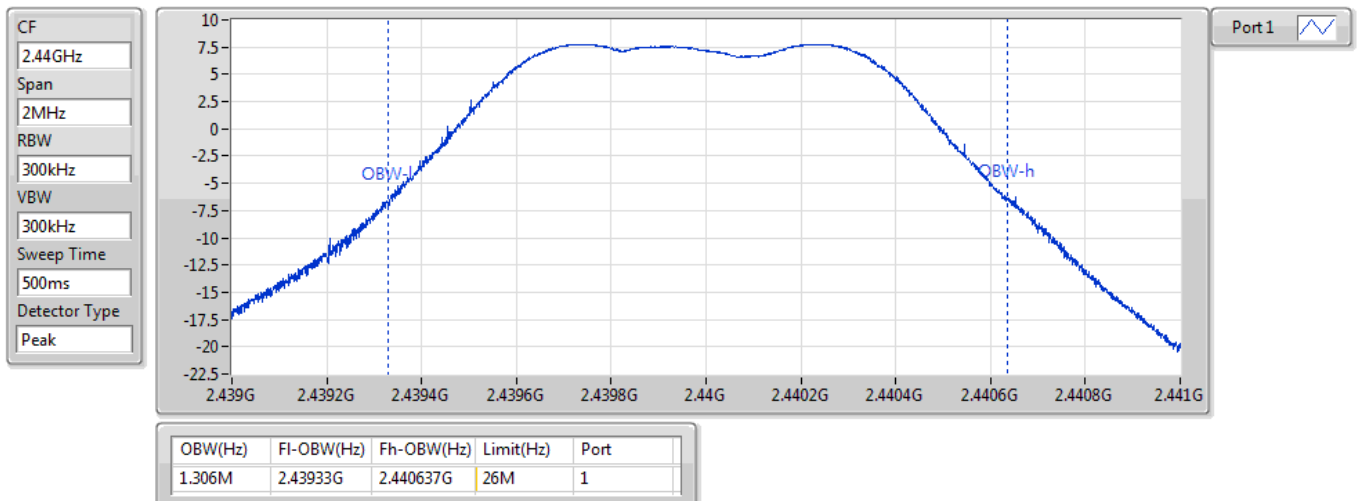
2440MHz_TnomVmin



BT-LE(1Mbps)

OBW

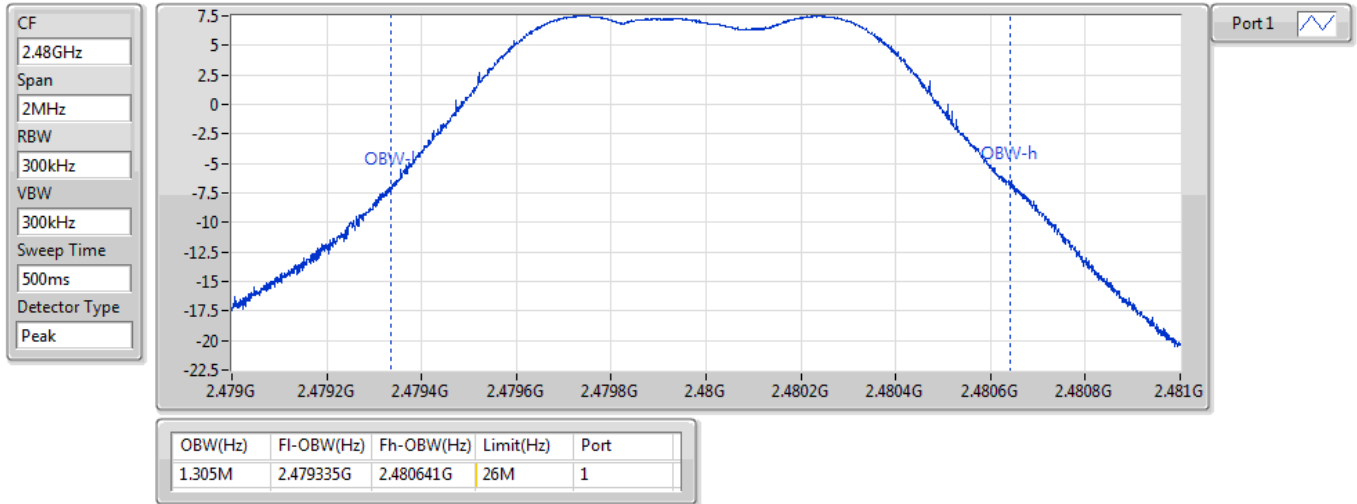
2440MHz_TnomVmax



BT-LE(1Mbps)

OBW

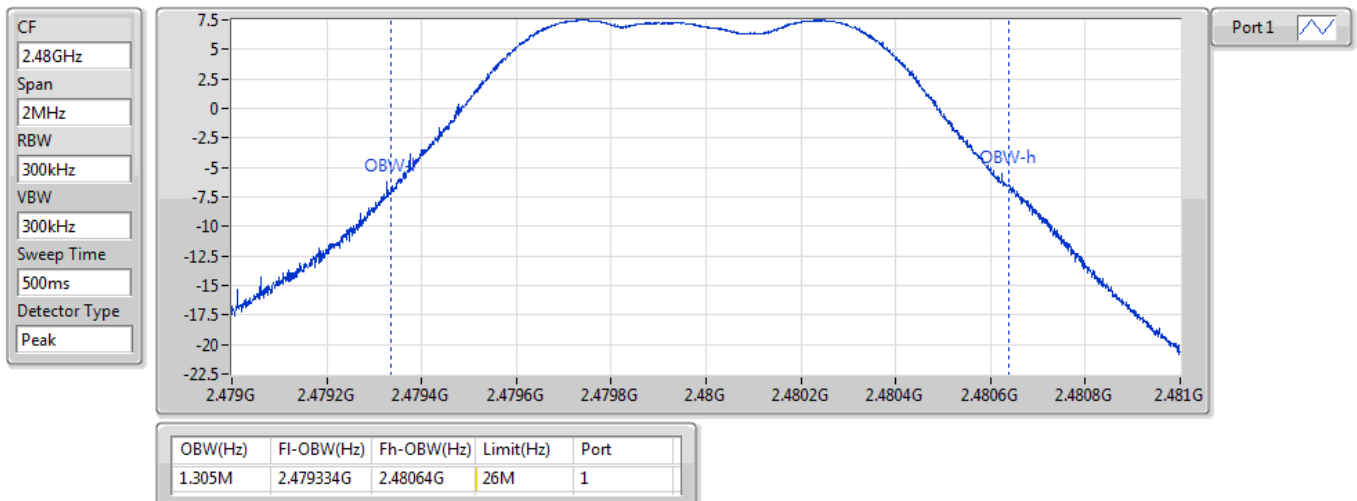
2480MHz_TnomVnom



BT-LE(1Mbps)

OBW

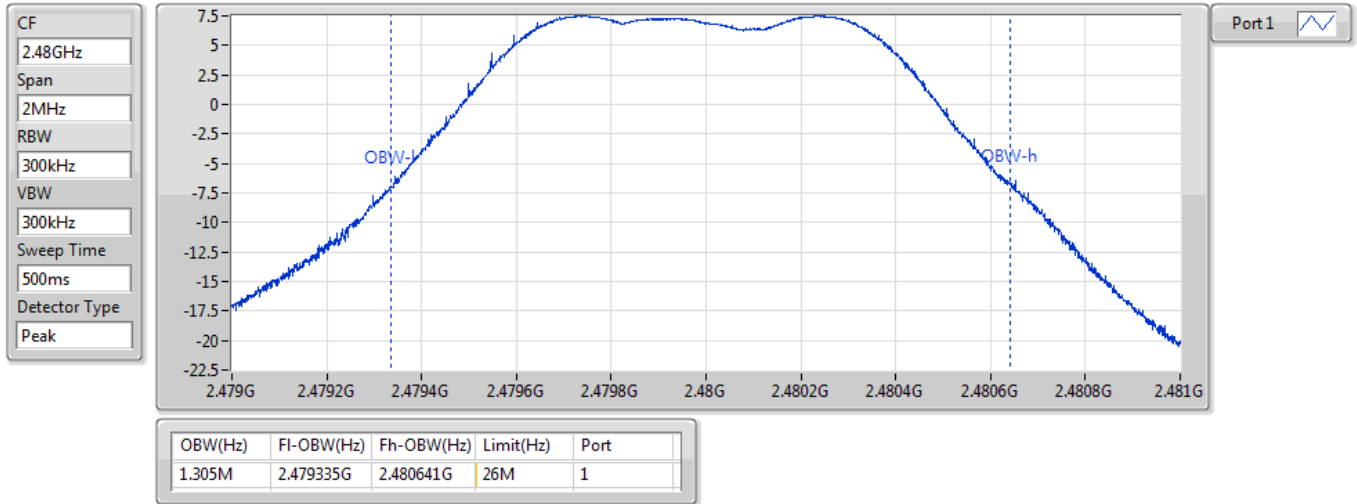
2480MHz_TnomVmin



BT-LE(1Mbps)

OBW

2480MHz_TnomVmax



**Summary**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.387G	2.4G	1M	2.4G	-28.61	1.37721	-16.02	25

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	30M	2.387G	1M	1.44184G	-44.63	0.03443	-26.02	2.5
2402MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.4G	-28.81	1.31522	-16.02	25
2402MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.4913G	-54.10	0.00389	-16.02	25
2402MHz_TnomVnom	Pass	2.4965G	12.5G	1M	12.47249G	-42.97	0.05047	-26.02	2.5
2402MHz_TnomVmin	Pass	30M	2.387G	1M	1.44184G	-44.41	0.03622	-26.02	2.5
2402MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.4G	-29.45	1.13501	-16.02	25
2402MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.49156G	-54.09	0.0039	-16.02	25
2402MHz_TnomVmin	Pass	2.4965G	12.5G	1M	12.48875G	-43.12	0.04875	-26.02	2.5
2402MHz_TnomVmax	Pass	30M	2.387G	1M	1.44184G	-44.66	0.0342	-26.02	2.5
2402MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.4G	-28.61	1.37721	-16.02	25
2402MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.48875G	-54.07	0.00392	-16.02	25
2402MHz_TnomVmax	Pass	2.4965G	12.5G	1M	12.49125G	-43.24	0.04742	-26.02	2.5
2440MHz_TnomVnom	Pass	30M	2.387G	1M	1.46423G	-42.31	0.05875	-26.02	2.5
2440MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.3999G	-54.47	0.00357	-16.02	25
2440MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48808G	-54.03	0.00395	-16.02	25
2440MHz_TnomVnom	Pass	2.4965G	12.5G	1M	12.47249G	-43.08	0.0492	-26.02	2.5
2440MHz_TnomVmin	Pass	30M	2.387G	1M	1.46423G	-41.96	0.06368	-26.02	2.5
2440MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39997G	-54.55	0.00351	-16.02	25
2440MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.48828G	-54.02	0.00396	-16.02	25
2440MHz_TnomVmin	Pass	2.4965G	12.5G	1M	12.5G	-42.89	0.0514	-26.02	2.5
2440MHz_TnomVmax	Pass	30M	2.387G	1M	1.46423G	-42.18	0.06053	-26.02	2.5
2440MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39202G	-54.57	0.00349	-16.02	25
2440MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.48782G	-54.05	0.00394	-16.02	25
2440MHz_TnomVmax	Pass	2.4965G	12.5G	1M	12.5G	-43.22	0.04764	-26.02	2.5
2480MHz_TnomVnom	Pass	30M	2.387G	1M	1.4878G	-41.89	0.06471	-26.02	2.5
2480MHz_TnomVnom	Pass	2.387G	2.4G	1M	2.39997G	-54.56	0.0035	-16.02	25
2480MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2.48353G	-52.50	0.00562	-16.02	25
2480MHz_TnomVnom	Pass	2.4965G	12.5G	1M	10.53681G	-43.07	0.04932	-26.02	2.5
2480MHz_TnomVmin	Pass	30M	2.387G	1M	1.4878G	-42.03	0.06266	-26.02	2.5
2480MHz_TnomVmin	Pass	2.387G	2.4G	1M	2.39997G	-54.52	0.00353	-16.02	25
2480MHz_TnomVmin	Pass	2.4835G	2.4965G	1M	2.4836G	-52.70	0.00537	-16.02	25

**CSE-TX-DTS Unwanted Emission Strength****Appendix D**

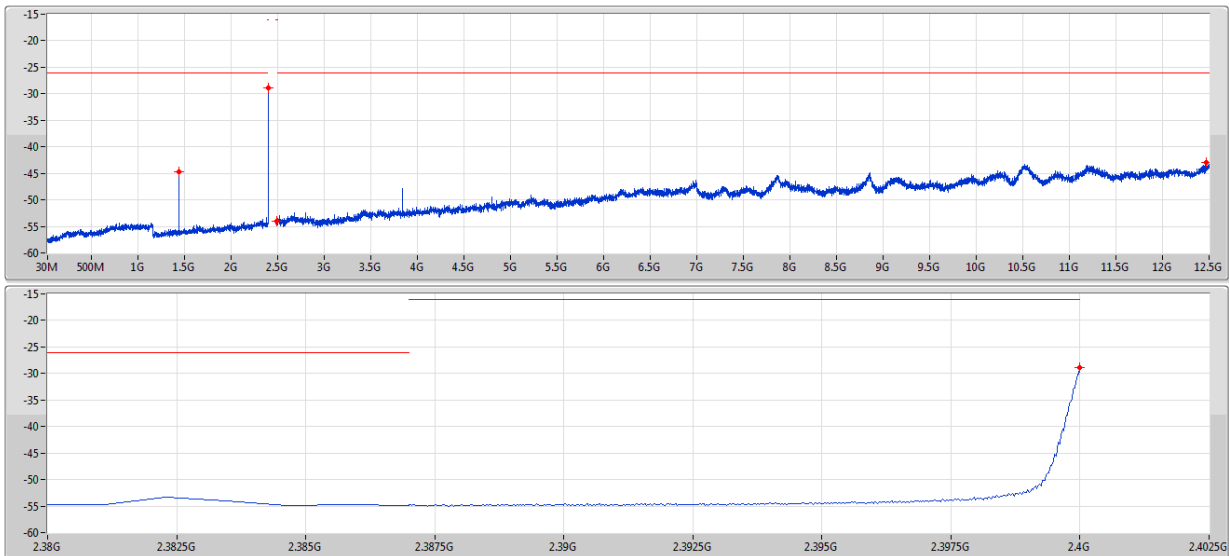
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm/MHz)	Psum (uW/MHz)	Limit (dBm/MHz)	Limit (uW/MHz)
2480MHz_TnomVmin	Pass	2.4965G	12.5G	1M	12.48249G	-43.06	0.04943	-26.02	2.5
2480MHz_TnomVmax	Pass	30M	2.387G	1M	1.4878G	-41.97	0.06353	-26.02	2.5
2480MHz_TnomVmax	Pass	2.387G	2.4G	1M	2.39977G	-54.50	0.00355	-16.02	25
2480MHz_TnomVmax	Pass	2.4835G	2.4965G	1M	2.48355G	-52.70	0.00537	-16.02	25
2480MHz_TnomVmax	Pass	2.4965G	12.5G	1M	10.52431G	-42.83	0.05212	-26.02	2.5



BT-LE(1Mbps)

CSE-TX-DTS

2402MHz_TnomVnom

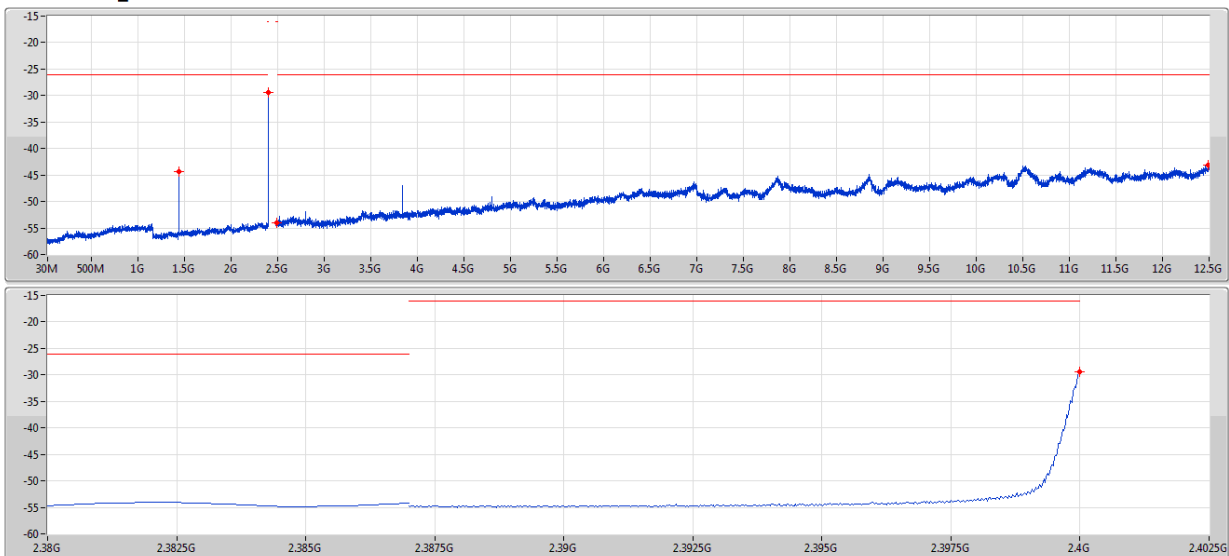


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	1.44184G	-44.63	-26.02	-18.61	-44.63
2.387G	2.4G	2.4G	-28.81	-16.02	-12.79	-28.81
2.4835G	2.4965G	2.4913G	-54.10	-16.02	-38.08	-54.10
2.4965G	12.5G	12.47249G	-42.97	-26.02	-16.95	-42.97

BT-LE(1Mbps)

CSE-TX-DTS

2402MHz_TnomVmin

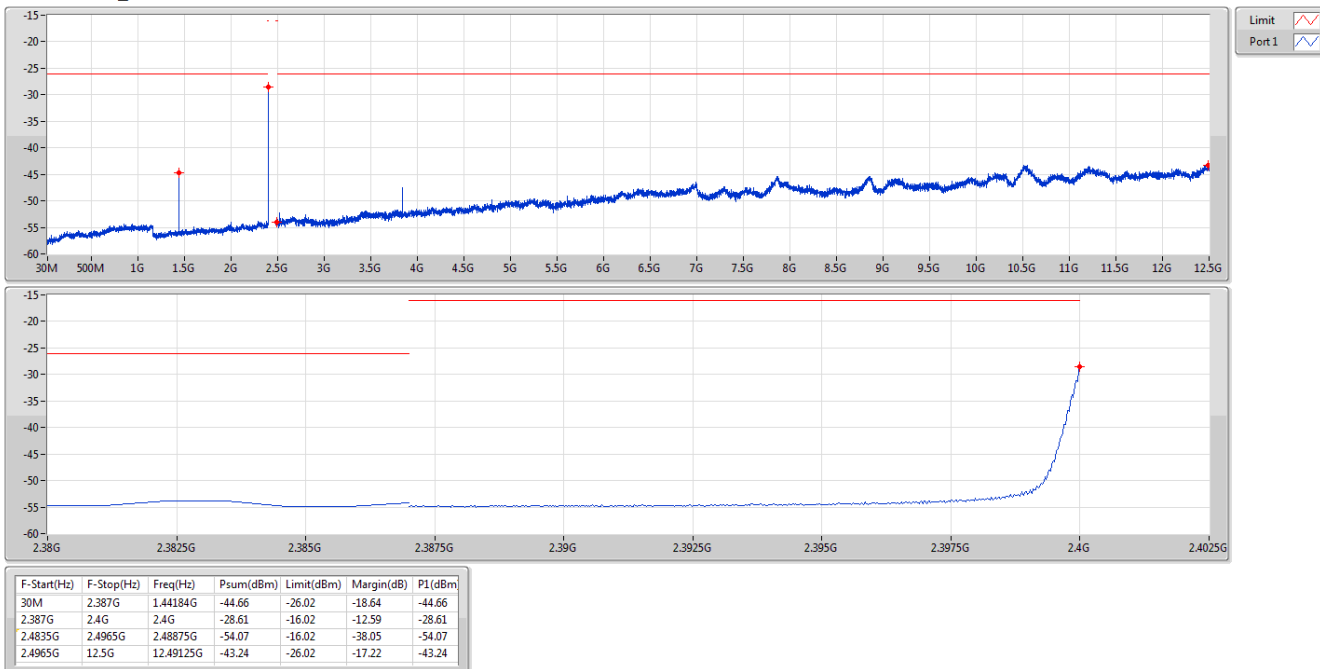


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	1.44184G	-44.41	-26.02	-18.39	-44.41
2.387G	2.4G	2.4G	-29.45	-16.02	-13.43	-29.45
2.4835G	2.4965G	2.49156G	-54.09	-16.02	-38.07	-54.09
2.4965G	12.5G	12.48875G	-43.12	-26.02	-17.10	-43.12

BT-LE(1Mbps)

CSE-TX-DTS

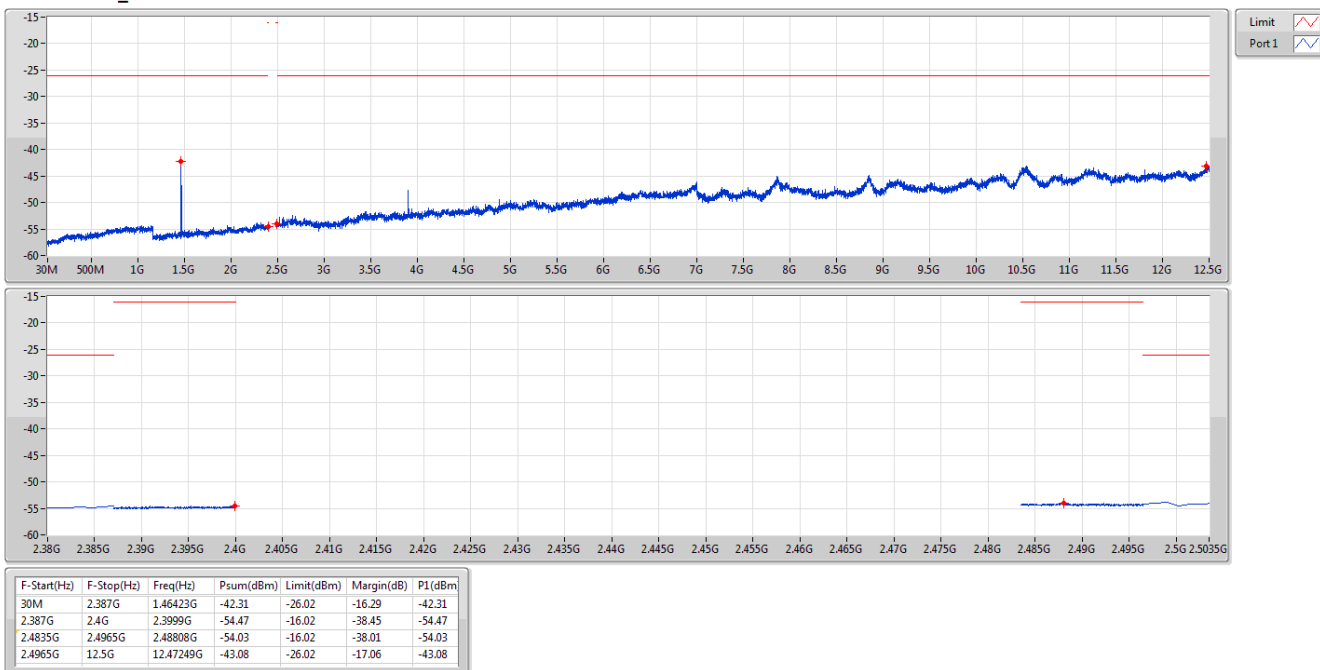
2402MHz_TnomVmax



BT-LE(1Mbps)

CSE-TX-DTS

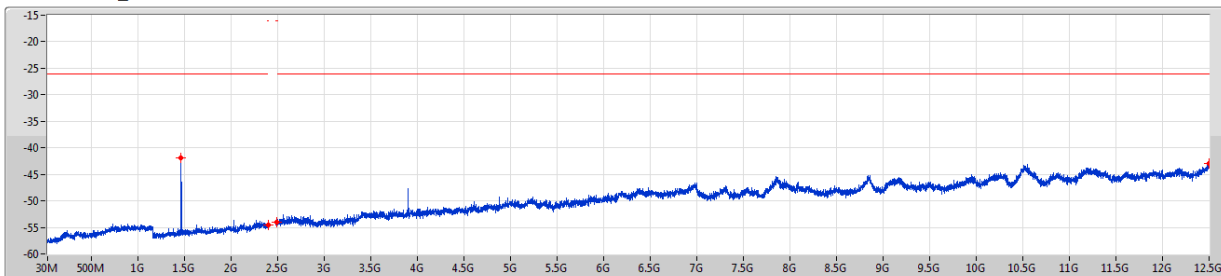
2440MHz_TnomVnom



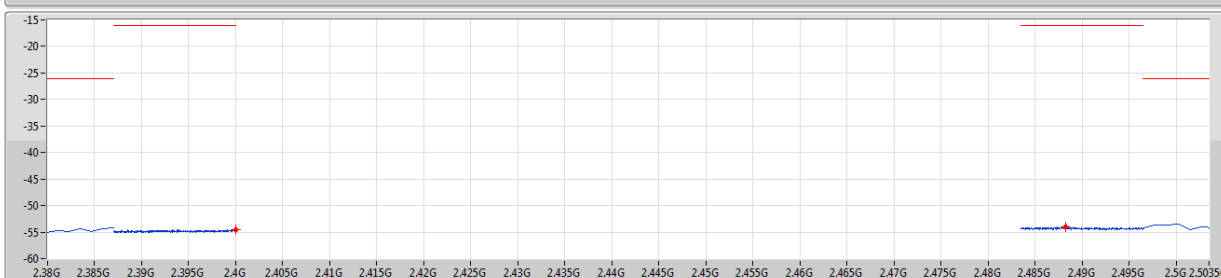
BT-LE(1Mbps)

CSE-TX-DTS

2440MHz_TnomVmin



Limit
Port1

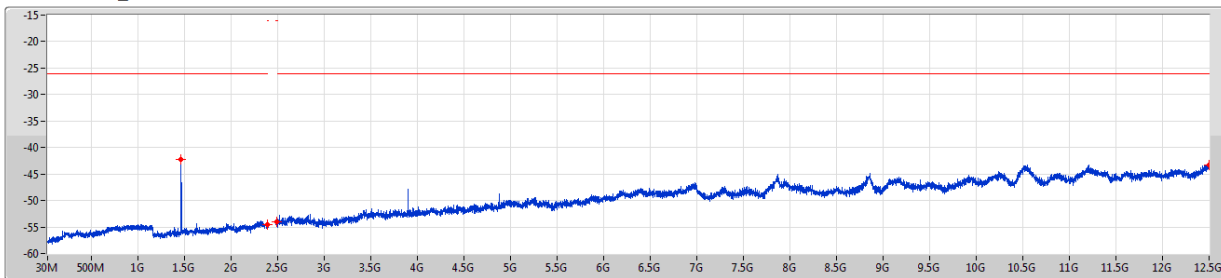


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	1.46423G	-41.96	-26.02	-15.94	-41.96
2.387G	2.4G	2.39997G	-54.55	-16.02	-38.53	-54.55
2.4835G	2.4965G	2.48828G	-54.02	-16.02	-38.00	-54.02
2.4965G	12.5G	12.5G	-42.89	-26.02	-16.87	-42.89

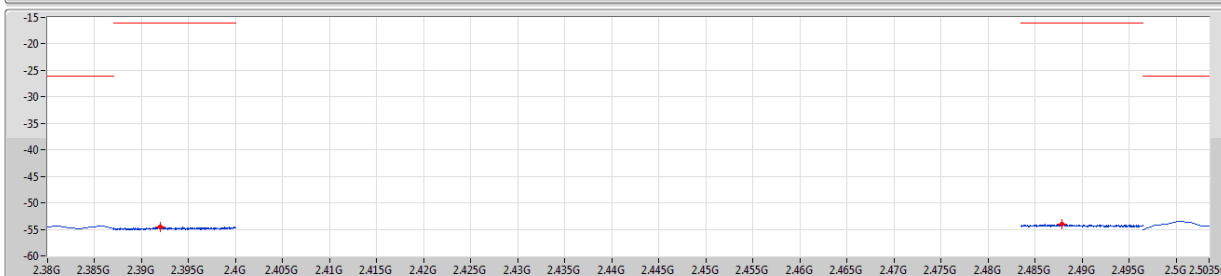
BT-LE(1Mbps)

CSE-TX-DTS

2440MHz_TnomVmax



Limit
Port1



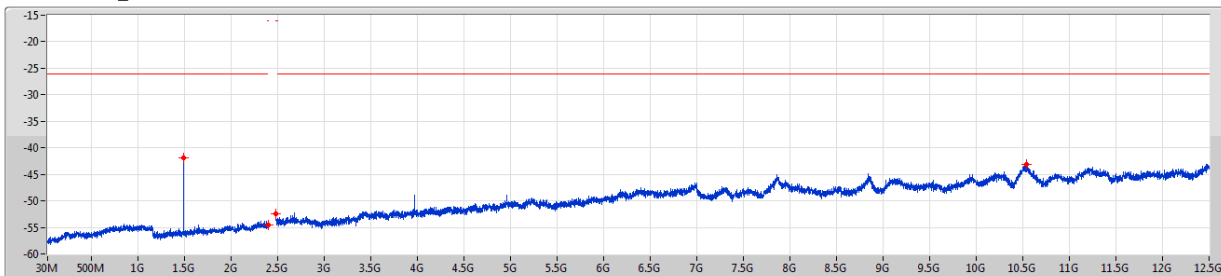
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	1.46423G	-42.18	-26.02	-16.16	-42.18
2.387G	2.4G	2.39202G	-54.57	-16.02	-38.55	-54.57
2.4835G	2.4965G	2.48782G	-54.05	-16.02	-38.03	-54.05
2.4965G	12.5G	12.5G	-43.22	-26.02	-17.20	-43.22



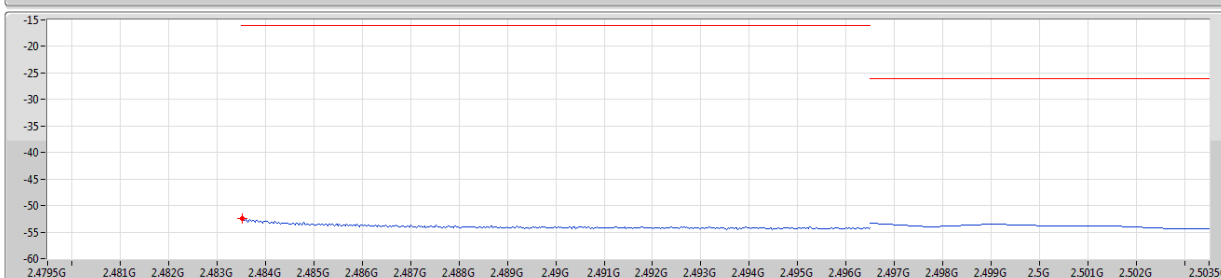
BT-LE(1Mbps)

CSE-TX-DTS

2480MHz_TnomVnom



Limit
Port1

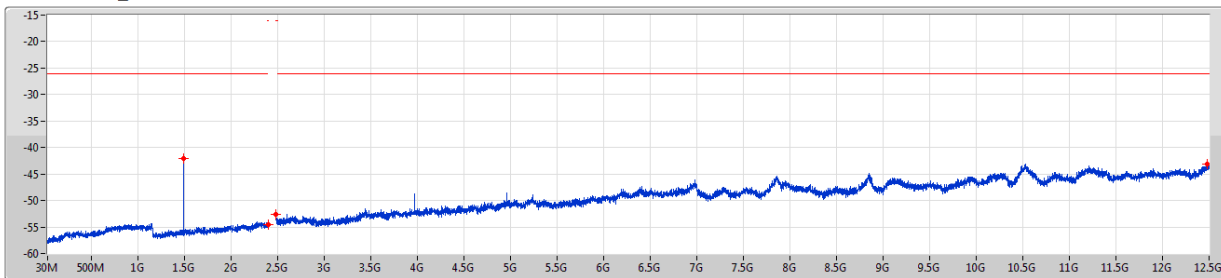


F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	1.4878G	-41.89	-26.02	-15.87	-41.89
2.387G	2.4G	2.39997G	-54.56	-16.02	-38.54	-54.56
2.4835G	2.4965G	2.48353G	-52.50	-16.02	-36.48	-52.50
2.4965G	12.5G	10.53681G	-43.07	-26.02	-17.05	-43.07

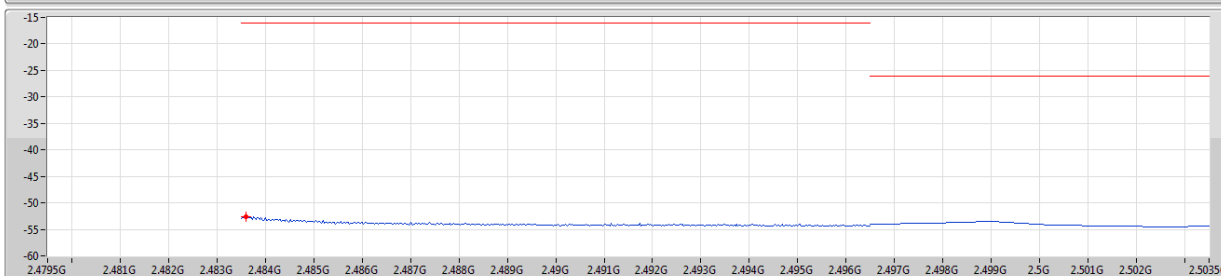
BT-LE(1Mbps)

CSE-TX-DTS

2480MHz_TnomVmin



Limit
Port1



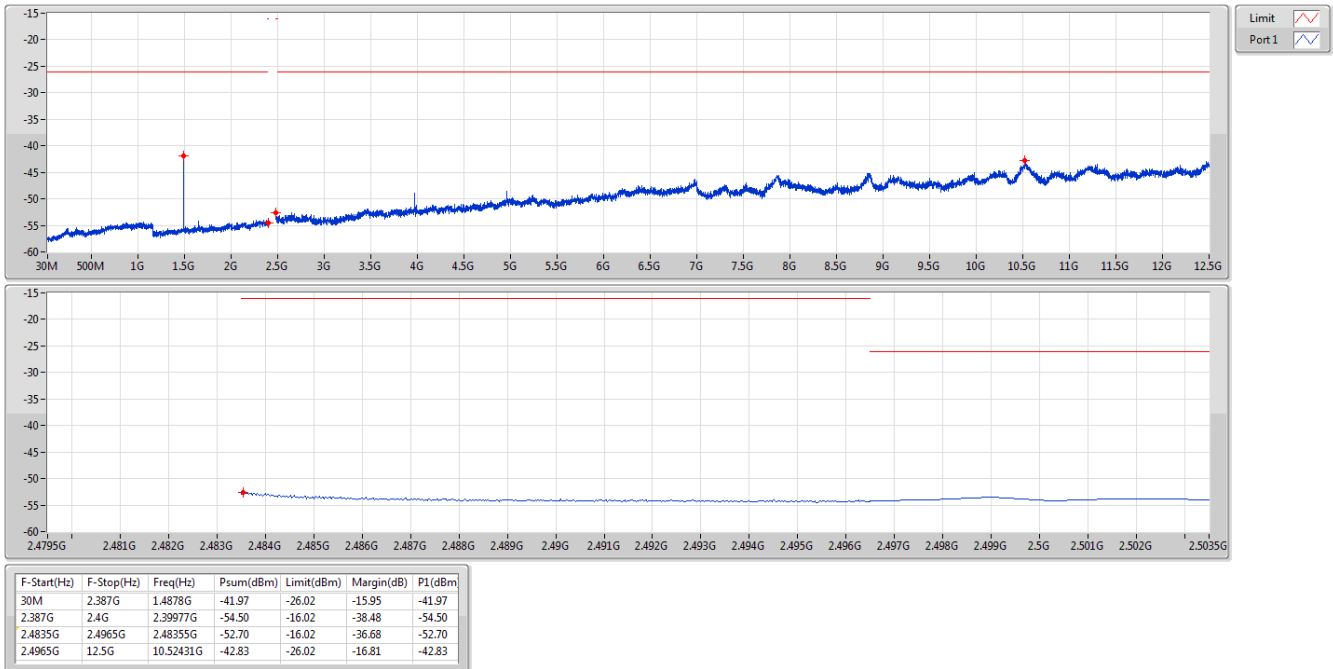
F-Start(Hz)	F-Stop(Hz)	Freq(Hz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)
30M	2.387G	1.4878G	-42.03	-26.02	-16.01	-42.03
2.387G	2.4G	2.39997G	-54.52	-16.02	-38.50	-54.52
2.4835G	2.4965G	2.4836G	-52.70	-16.02	-36.68	-52.70
2.4965G	12.5G	12.48249G	-43.06	-26.02	-17.04	-43.06



BT-LE(1Mbps)

CSE-TX-DTS

2480MHz_TnomVmax



**Summary**

Mode	Result	MAC (ID Length)	ID Limit	Function
2.4-2.4835GHz	-	-	-	-
BT-LE(1Mbps)	Pass	20:70:3A:01:1F:AC	48 bits	Good

Result

Mode	Result	MAC (ID Length)	ID Limit	Function
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	20:70:3A:01:1F:AC	48 bits	Good
2402MHz_TnomVmin	Pass	20:70:3A:01:1F:AC	48 bits	Good
2402MHz_TnomVmax	Pass	20:70:3A:01:1F:AC	48 bits	Good
2440MHz_TnomVnom	Pass	20:70:3A:01:1F:AC	48 bits	Good
2440MHz_TnomVmin	Pass	20:70:3A:01:1F:AC	48 bits	Good
2440MHz_TnomVmax	Pass	20:70:3A:01:1F:AC	48 bits	Good
2480MHz_TnomVnom	Pass	20:70:3A:01:1F:AC	48 bits	Good
2480MHz_TnomVmin	Pass	20:70:3A:01:1F:AC	48 bits	Good
2480MHz_TnomVmax	Pass	20:70:3A:01:1F:AC	48 bits	Good

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	1G	12.5G	1M	4.79356G	-63.64	0.43251	-46.99	20

Result

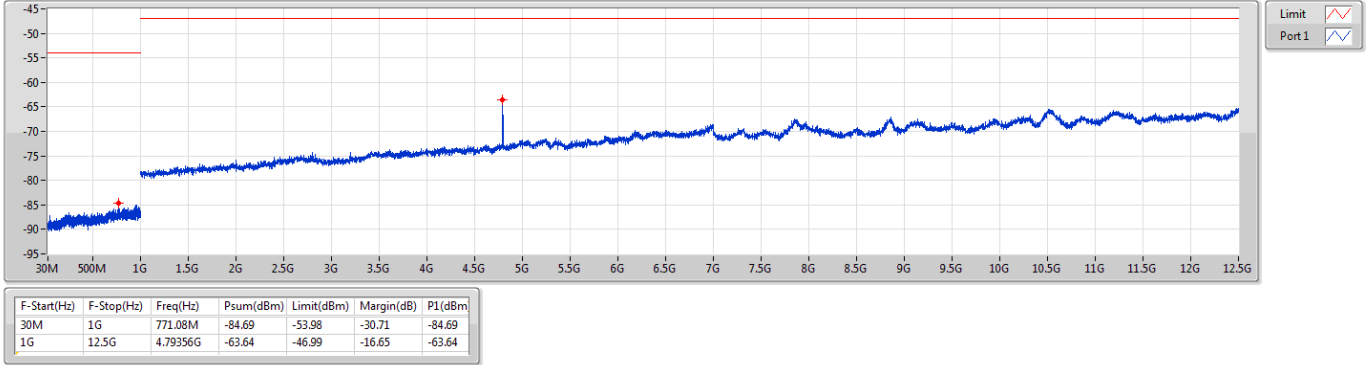
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (Hz)	Psum (dBm)	Psum (nW)	Limit (dBm)	Limit (nW)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	30M	1G	100k	771.08M	-84.69	0.0034	-53.98	4
2402MHz_TnomVnom	Pass	1G	12.5G	1M	4.79356G	-63.64	0.43251	-46.99	20
2402MHz_TnomVmin	Pass	30M	1G	100k	952.96M	-83.52	0.00445	-53.98	4
2402MHz_TnomVmin	Pass	1G	12.5G	1M	4.79356G	-63.75	0.4217	-46.99	20
2402MHz_TnomVmax	Pass	30M	1G	100k	772.05M	-84.69	0.0034	-53.98	4
2402MHz_TnomVmax	Pass	1G	12.5G	1M	4.79356G	-63.65	0.43152	-46.99	20
2440MHz_TnomVnom	Pass	30M	1G	100k	952.96M	-83.97	0.00401	-53.98	4
2440MHz_TnomVnom	Pass	1G	12.5G	1M	4.86975G	-64.15	0.38459	-46.99	20
2440MHz_TnomVmin	Pass	30M	1G	100k	952.96M	-83.86	0.00411	-53.98	4
2440MHz_TnomVmin	Pass	1G	12.5G	1M	4.86975G	-63.88	0.40926	-46.99	20
2440MHz_TnomVmax	Pass	30M	1G	100k	958.78M	-84.03	0.00395	-53.98	4
2440MHz_TnomVmax	Pass	1G	12.5G	1M	4.86975G	-64.11	0.38815	-46.99	20
2480MHz_TnomVnom	Pass	30M	1G	100k	937.44M	-84.72	0.00337	-53.98	4
2480MHz_TnomVnom	Pass	1G	12.5G	1M	12.49856G	-65.12	0.30761	-46.99	20
2480MHz_TnomVmin	Pass	30M	1G	100k	896.21M	-85.46	0.00284	-53.98	4
2480MHz_TnomVmin	Pass	1G	12.5G	1M	4.95025G	-64.94	0.32063	-46.99	20
2480MHz_TnomVmax	Pass	30M	1G	100k	946.17M	-84.61	0.00346	-53.98	4
2480MHz_TnomVmax	Pass	1G	12.5G	1M	10.51913G	-64.85	0.32734	-46.99	20



BT-LE(1Mbps)

CSE-RX-DTS

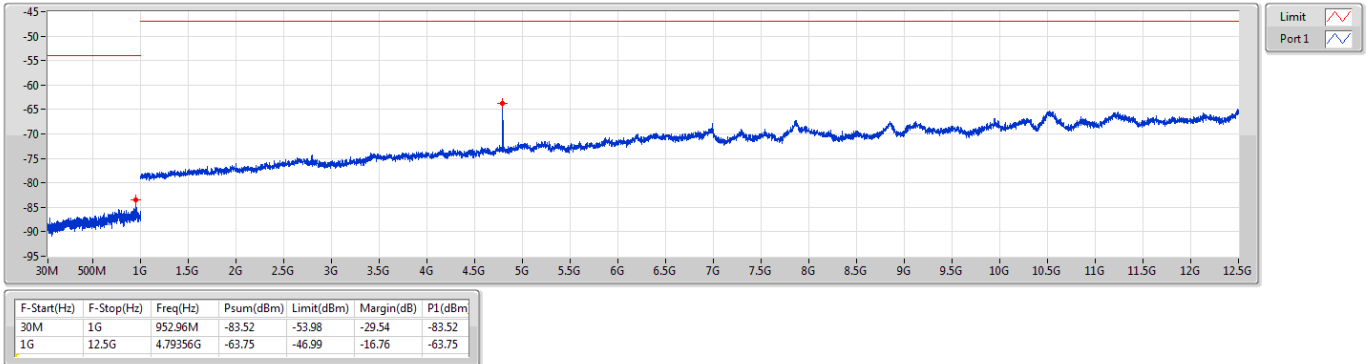
2402MHz_TnomVnom



BT-LE(1Mbps)

CSE-RX-DTS

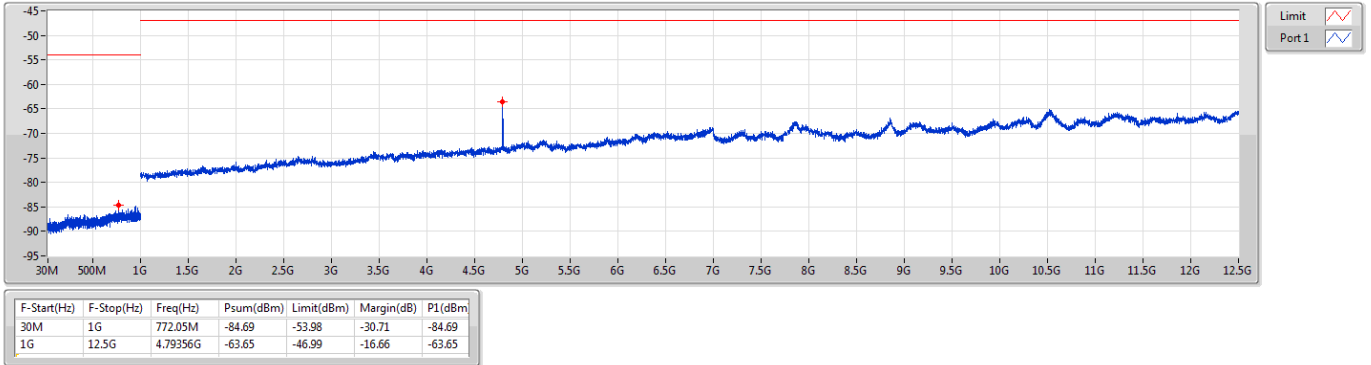
2402MHz_TnomVmin



BT-LE(1Mbps)

CSE-RX-DTS

2402MHz_TnomVmax

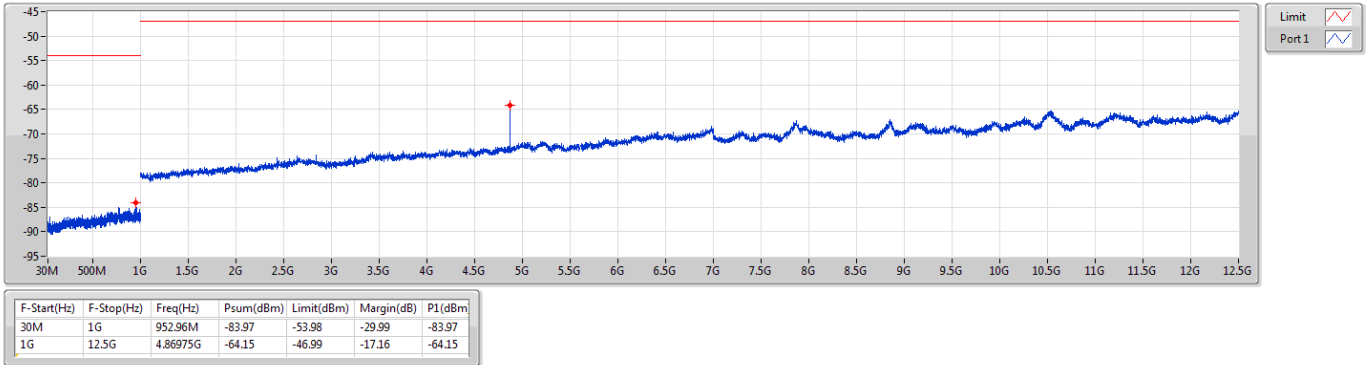




BT-LE(1Mbps)

CSE-RX-DTS

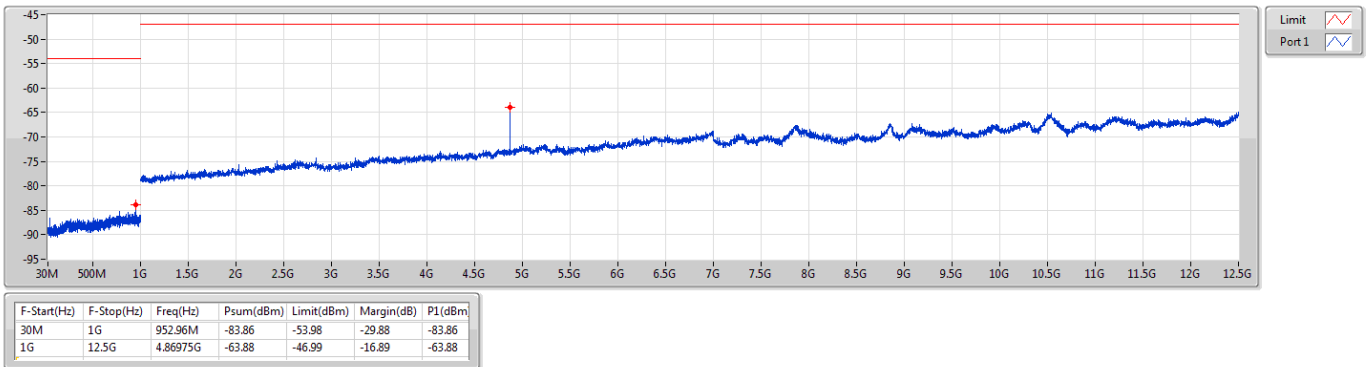
2440MHz_TnomVnom



BT-LE(1Mbps)

CSE-RX-DTS

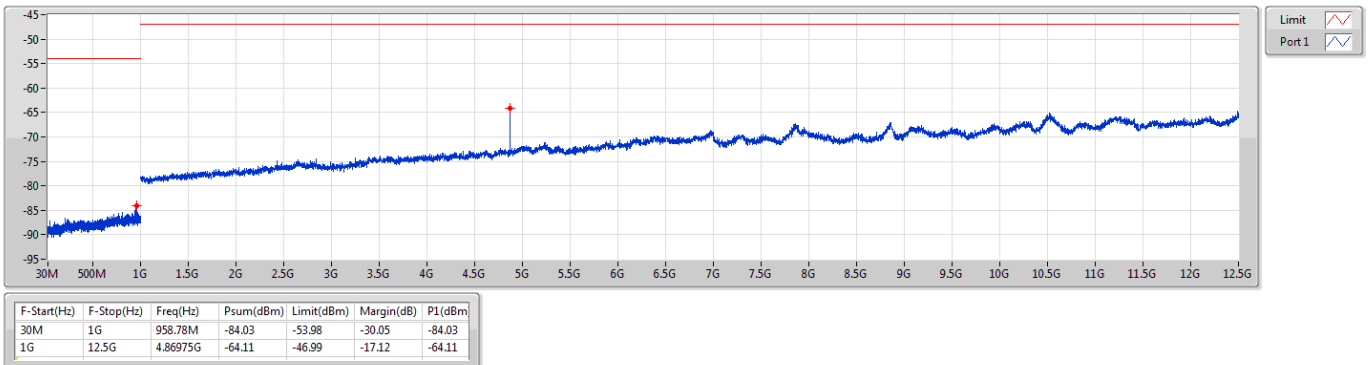
2440MHz_TnomVmin



BT-LE(1Mbps)

CSE-RX-DTS

2440MHz_TnomVmax

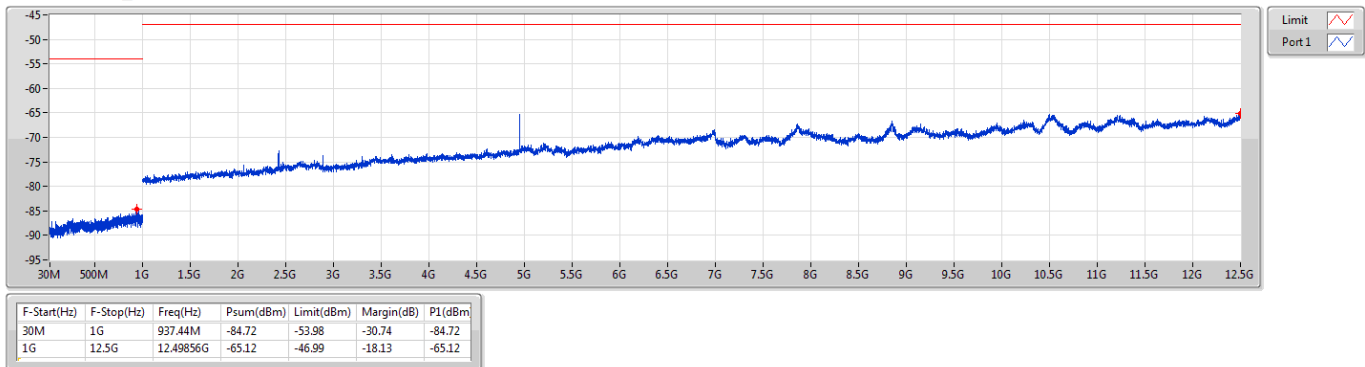




BT-LE(1Mbps)

CSE-RX-DTS

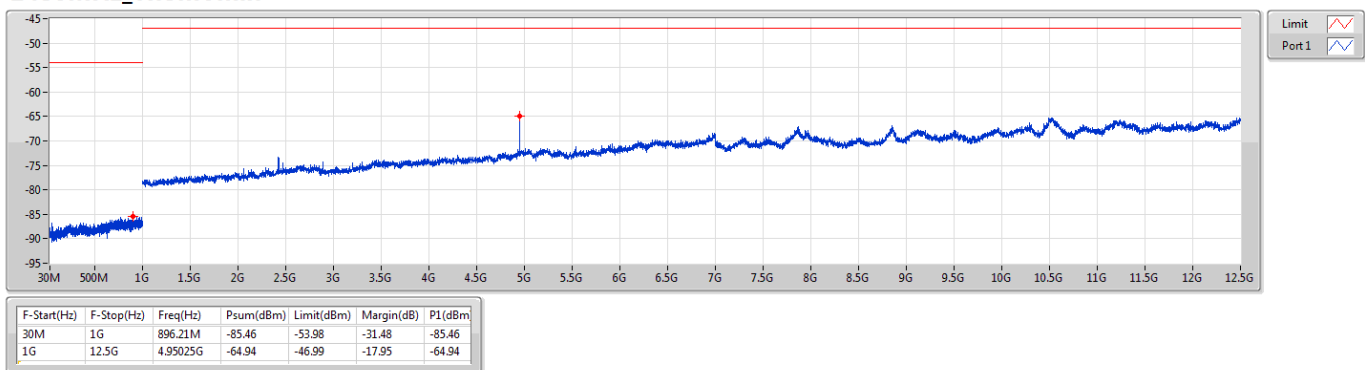
2480MHz_TnomVnom



BT-LE(1Mbps)

CSE-RX-DTS

2480MHz_TnomVmin



BT-LE(1Mbps)

CSE-RX-DTS

2480MHz_TnomVmax

